

CAPSTONE DESIGN PROJECT



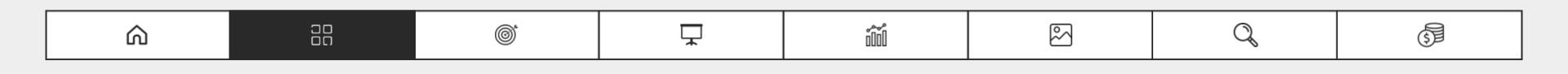


College Quest

Group G

2023_FALL

College life simulation game



兴 CONTENTS

Objective & Motivation

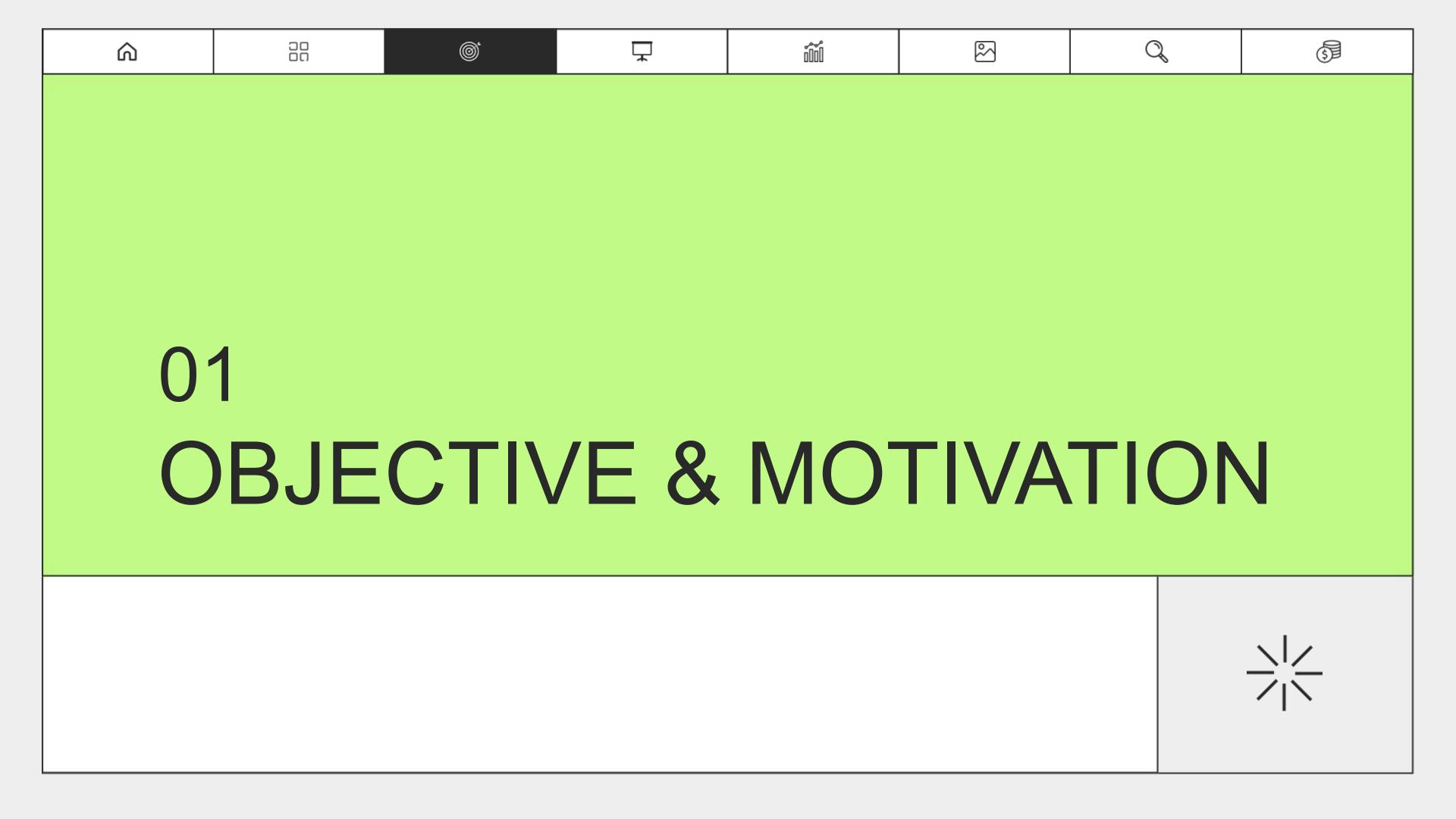
Project Progress

Game Flow

Final Design

Final Implementation & Demo

- Conclusion
 - Challenges, Limitation





MOTIVATION



the difficulties of college life



"mobile simulation game"



코로나19로 달라진 대학생활 중 **가장 아쉬운 점**은?

What are you most dissatisfied with your college life that has changed due to COVID-19?

32%

↑ 동0 리활동, 소모임 등 학업 이외 활동을 자유롭게 하지 못하는 점

Cannot freely engage in activities other than academic activities



↑ 선후배, 친구와 교류가 적어진 점

Less interaction with seniors, juniors and friends



↑ 도서관등 학교 시설을 자유롭게 이용하지 못하는 점

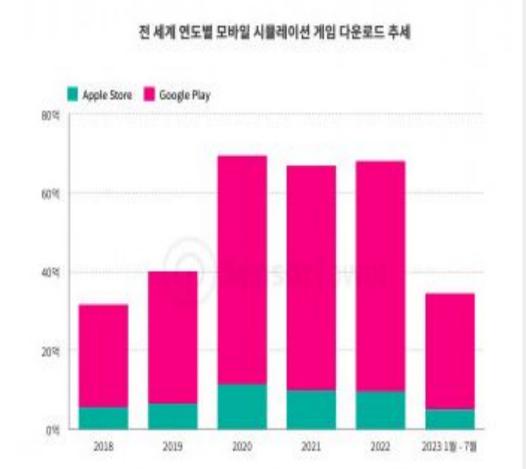
Inability to freely use school facilities, such as libraries

전 세계 모바일 시뮬레이션 게임 연간 다운로드, 68억 건 돌파

2020년 코로나19 팬데믹의 영향으로 전 세계 모바일 시뮬레 이션 게임은 동기 대비 73% 성장하여 69억 다운로드를 둘파 했습니다. 2021년부터 2022년까지 모바일 시뮬레이션 게임 의 다운로드 수는 비교적 안정적인 수준을 뮤지하며, 68억 건 을 넘어섰습니다.

S서마위가 참계한 제미되는 App Store의 Google Play의 다운로드 취임지원니다. 책임 테미터는 시 한 다운보도, 중에 다양보도와 제1차 한민없이도 전 자연의 다운보도를 표현이지 않습니다. Google

製工: 2073057在市村 医有色相口中肾上口



2023년 1월부터 7월까지 모바일 시뮬레이션 게임 다운로드 는 35억 건에 육박했으며, 그 중 85%는 Google Play에서 발 생했습니다.

OBJECTIVE



Mobile simulation game

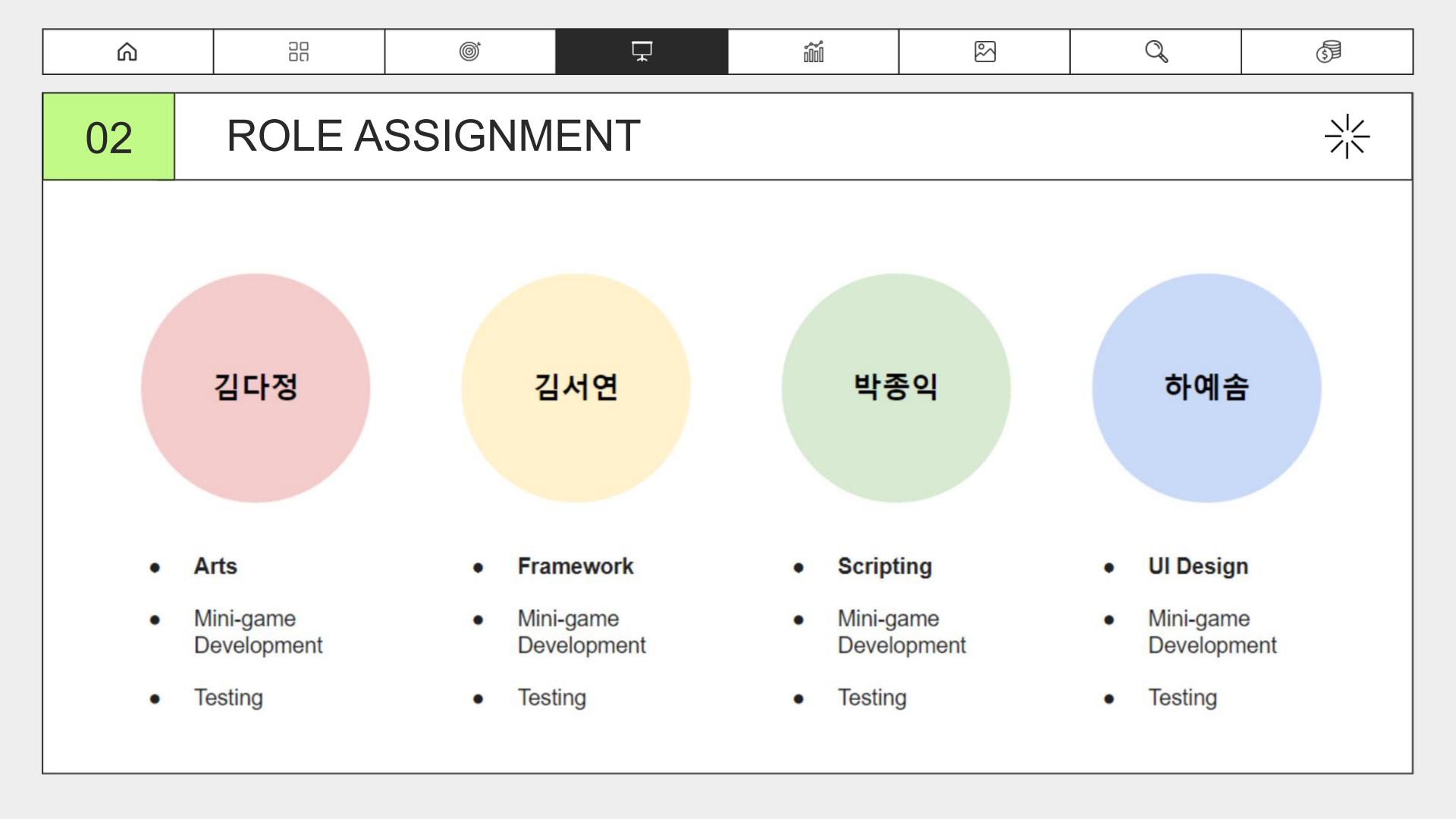
in the form of a game













PROJECT PROGRESS



	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14
Planning												
Scripting												
UI Design												
Arts												
Framework												
Mini-game development												
Sound												
Testing												

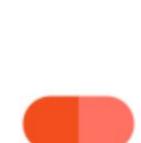


TECHNOLOGY STACK









canvas







collaboration

game development





MENTAL INDEX

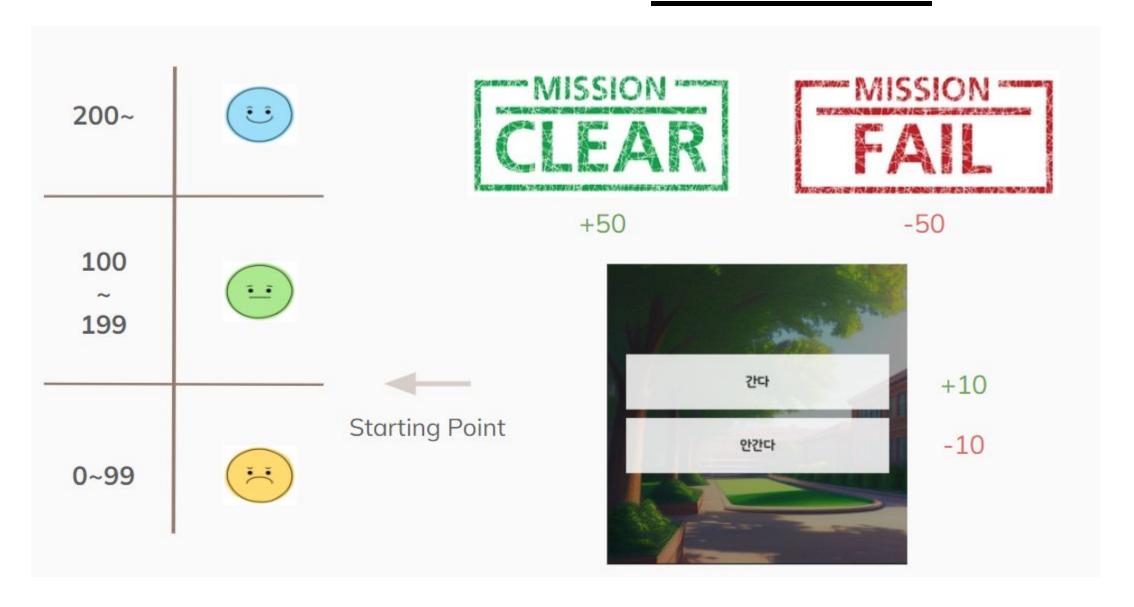


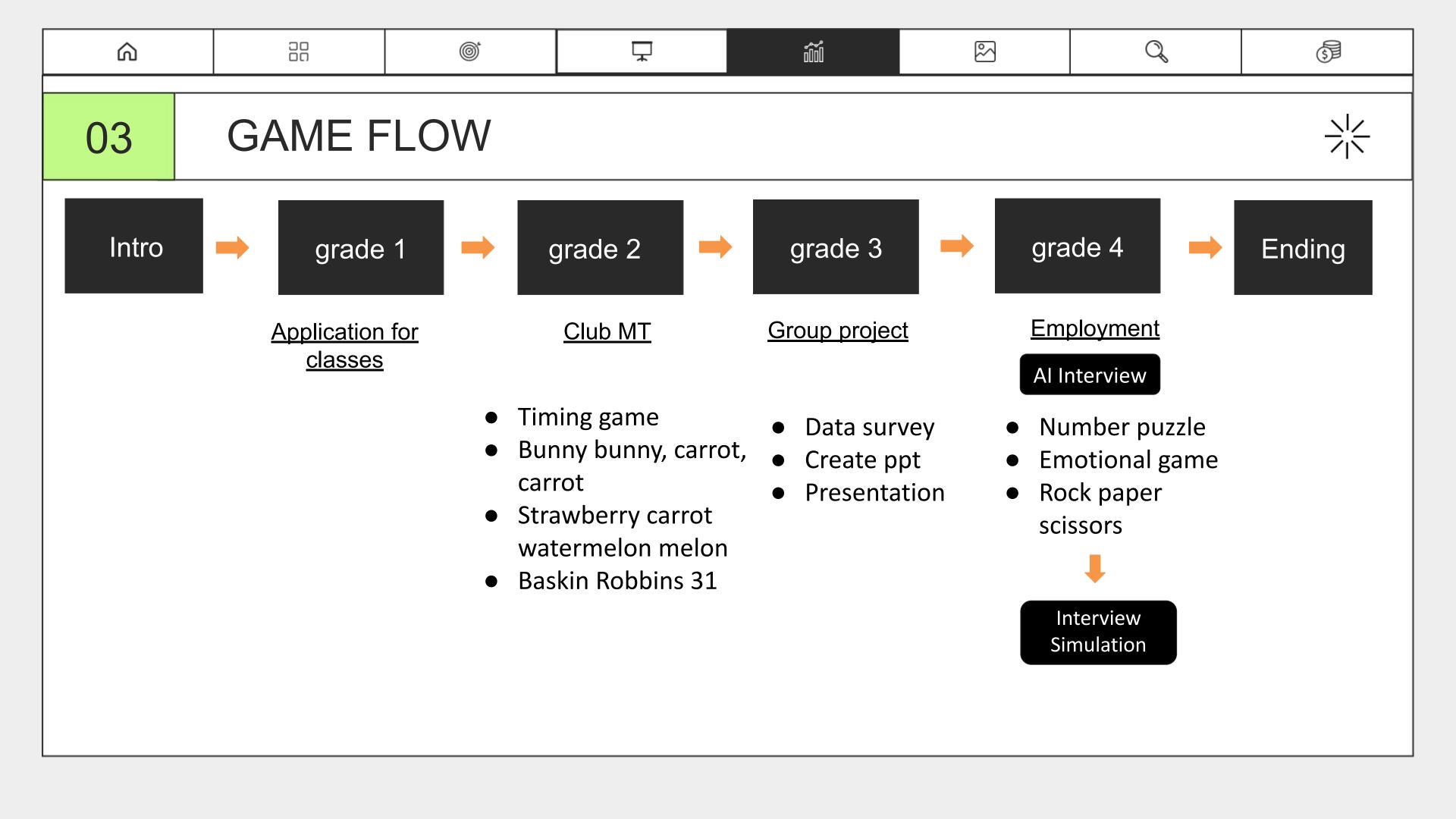
- When selecting the appropriate option

- If you win a mini game



Various ending according to the mental index

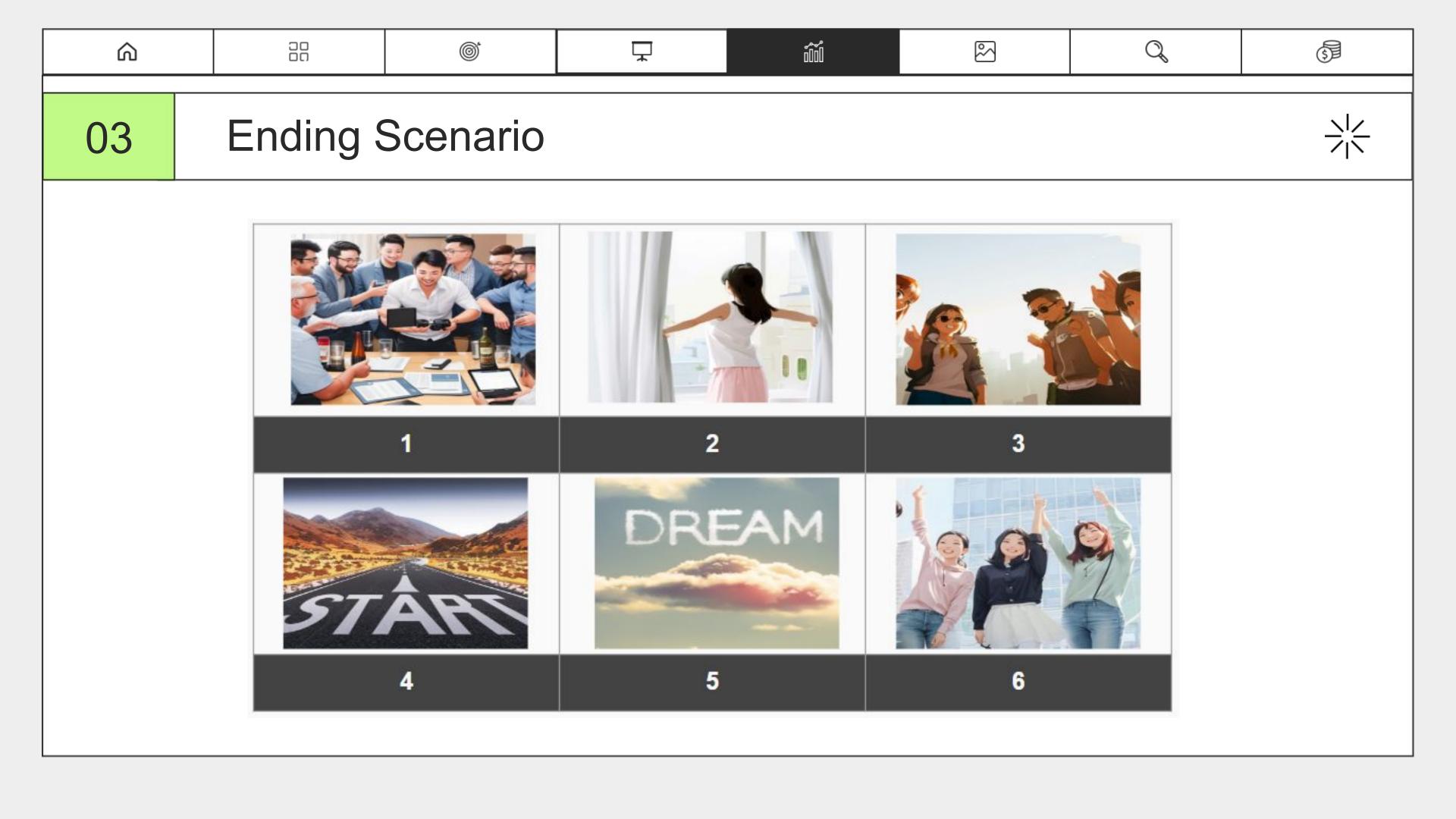




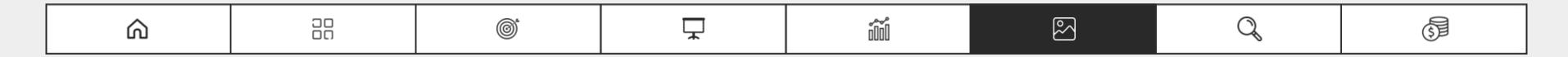
Ending Scenario



Scenario	Mental index	Interview	Ending phrase			
1	good pass		"열심히 노력한 보람이 있네! 행복한 직장 생활의 시작!" "Your hard work paid off! The beginning of a happy working life!			
2	average	fail	"평범한 듯 특별한 순간, 새로운 시작" "A normal and special moment, a new start"			
3	bad	pass	"힘든 길이지만, 내가 꺾을 수 있어." "It's a tough road, but I can beat it."			
4	good fail		"막다른 길이 아니야, 새로운 가능성의 문이 열렸어." "It's not a dead end, the door to new possibilities has opened."			
5	average	pass	"작은 시작이 큰 꿈을 이루는 계기일지도 몰라." "A small start may be the trigger for a big dream."			
6	bad	fail	"두려움이 있어도, 새로운 시작은 언제나 가능해." "Even with fear, a new beginning is always possible."			

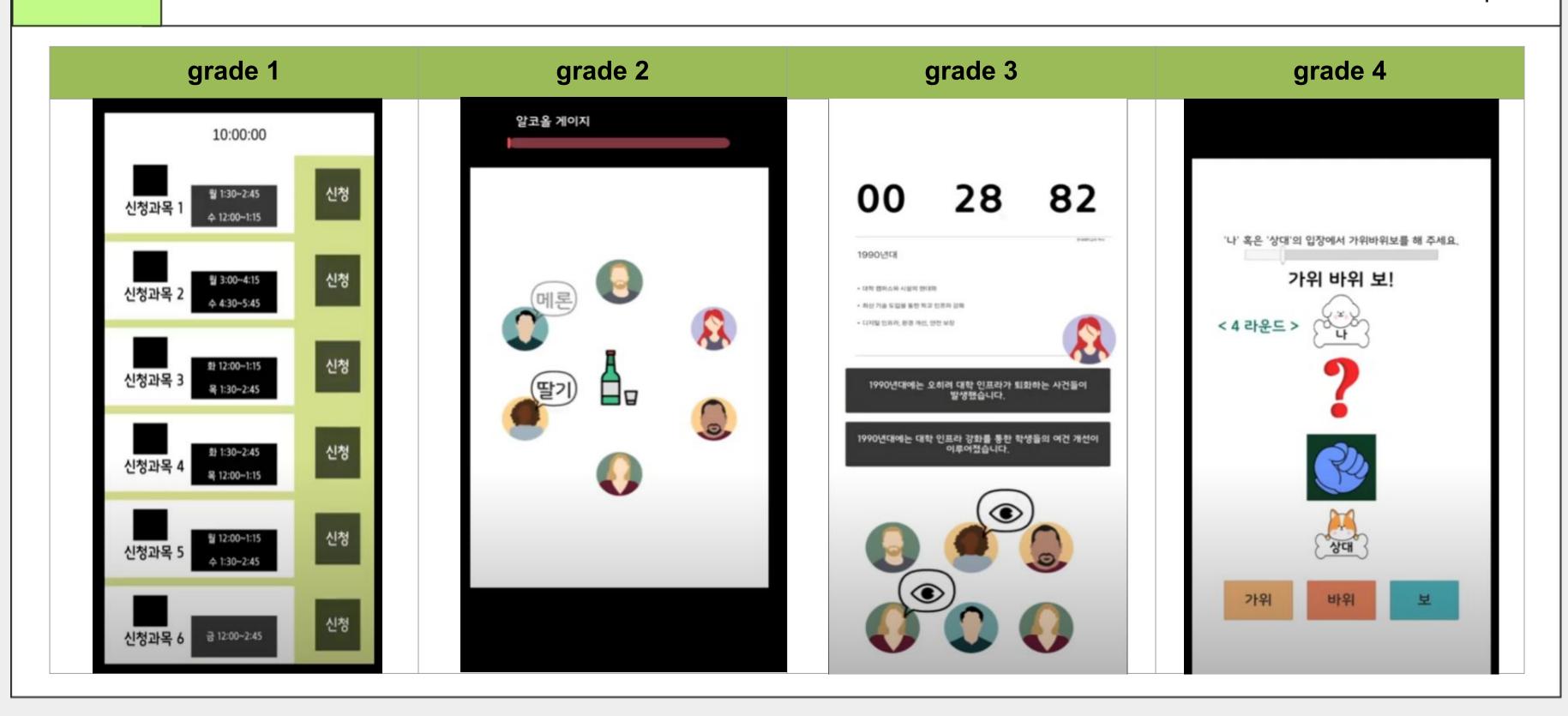




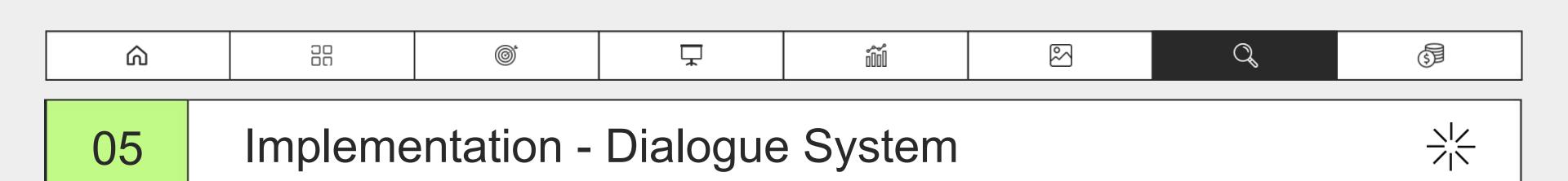


FINAL DESIGN









CSVConverter

Converts CSV file into Dictionary<string, List<Dialogue>>

GetDialouges

DialogueController

Set Dialogue UI (Textbox, character image, character name, text, ...)

DialogueUtils

- Return next dialogue
- Skip dialogues

class Dialogue

- string type;
- string name;
- string action;
- string nextCategory
- int mentalIndex

StageManager

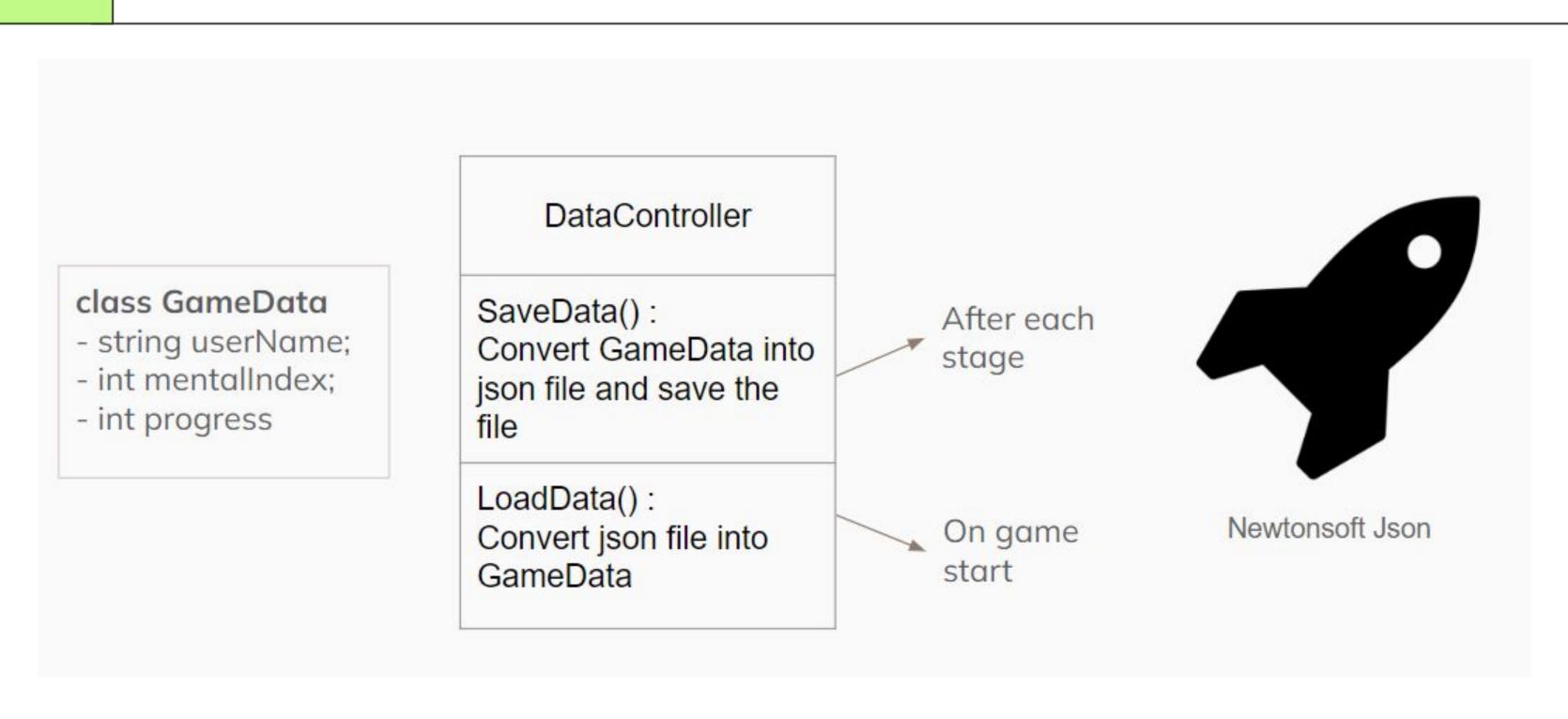
Request to start dialogue on certain event

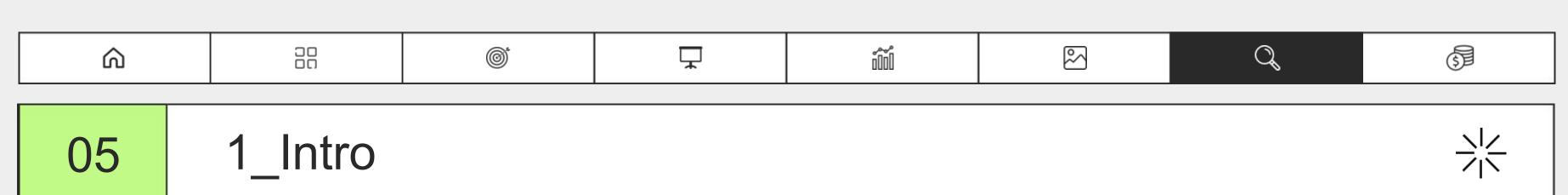
StartDialogue(string category)

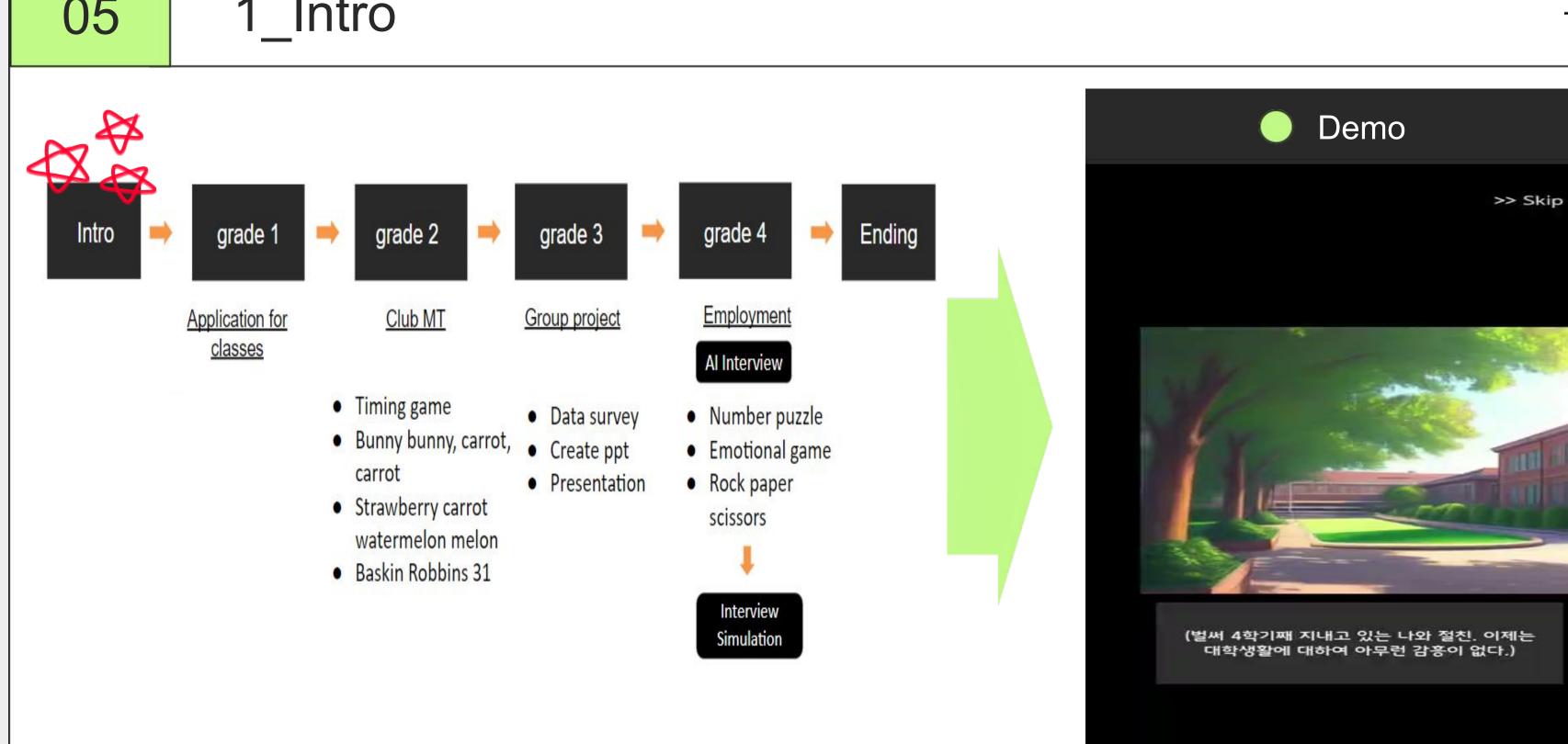


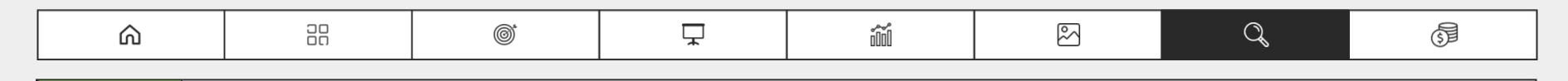
05 Implementation - Save and Load





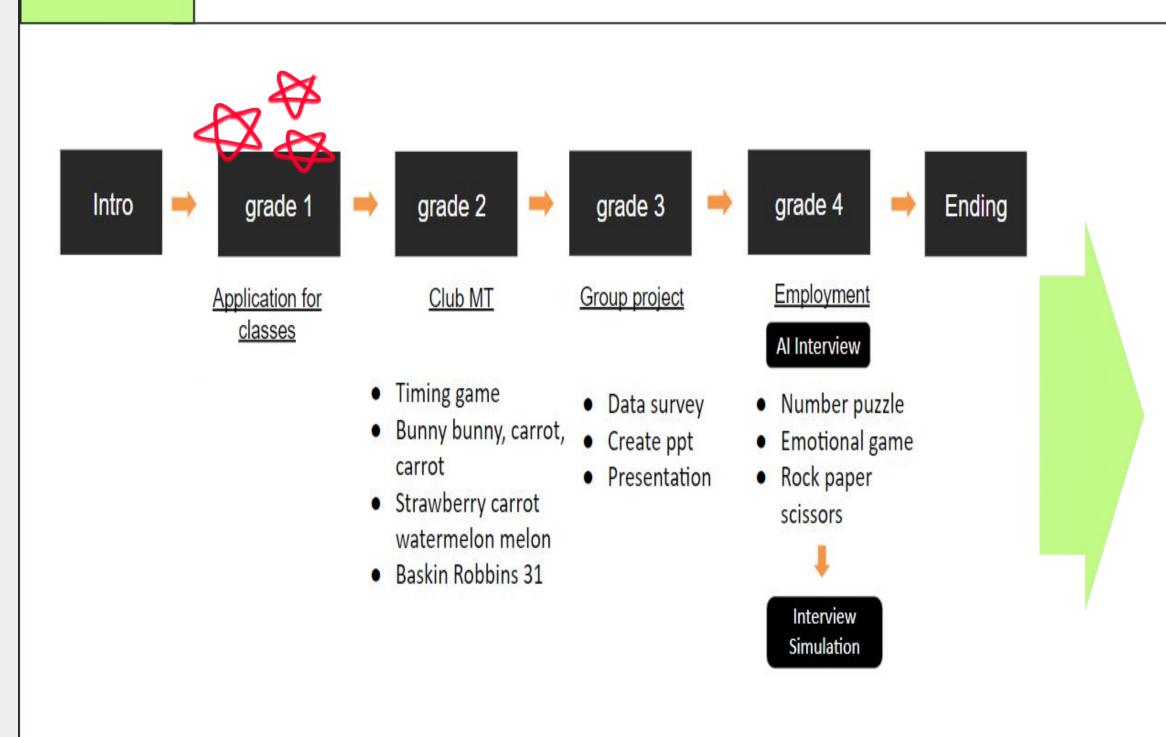


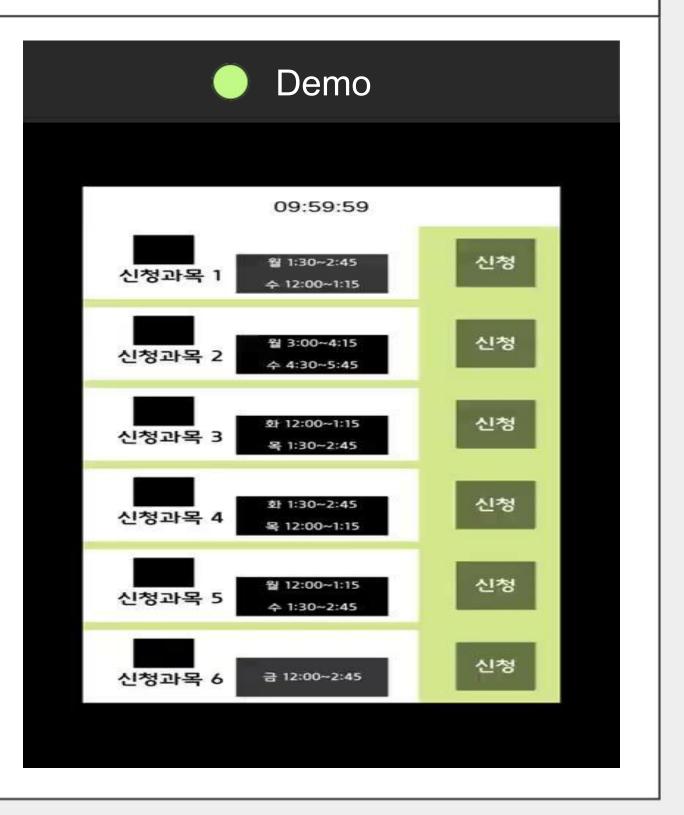


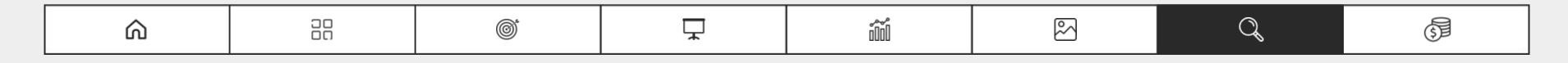


05 2_MiniGame_Grade1



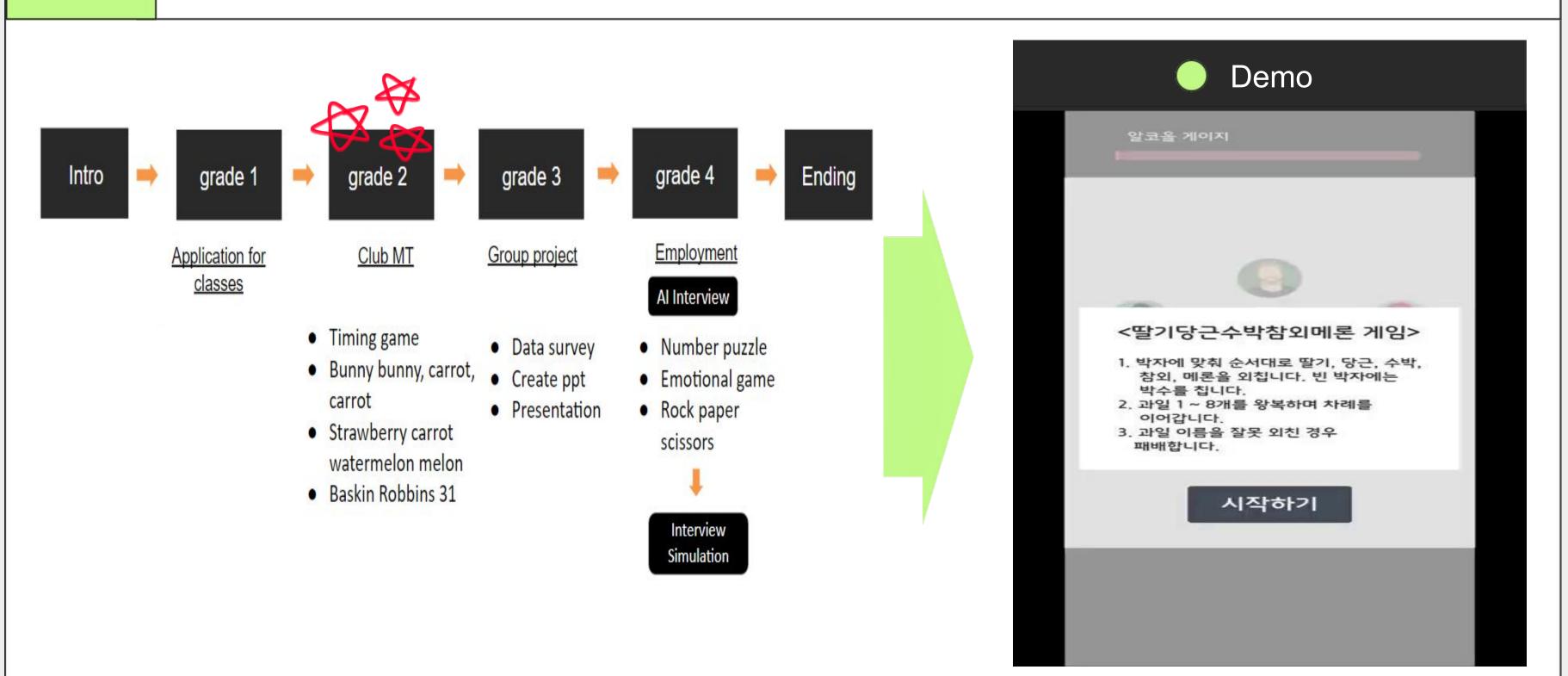






05 2_MiniGame_Grade2

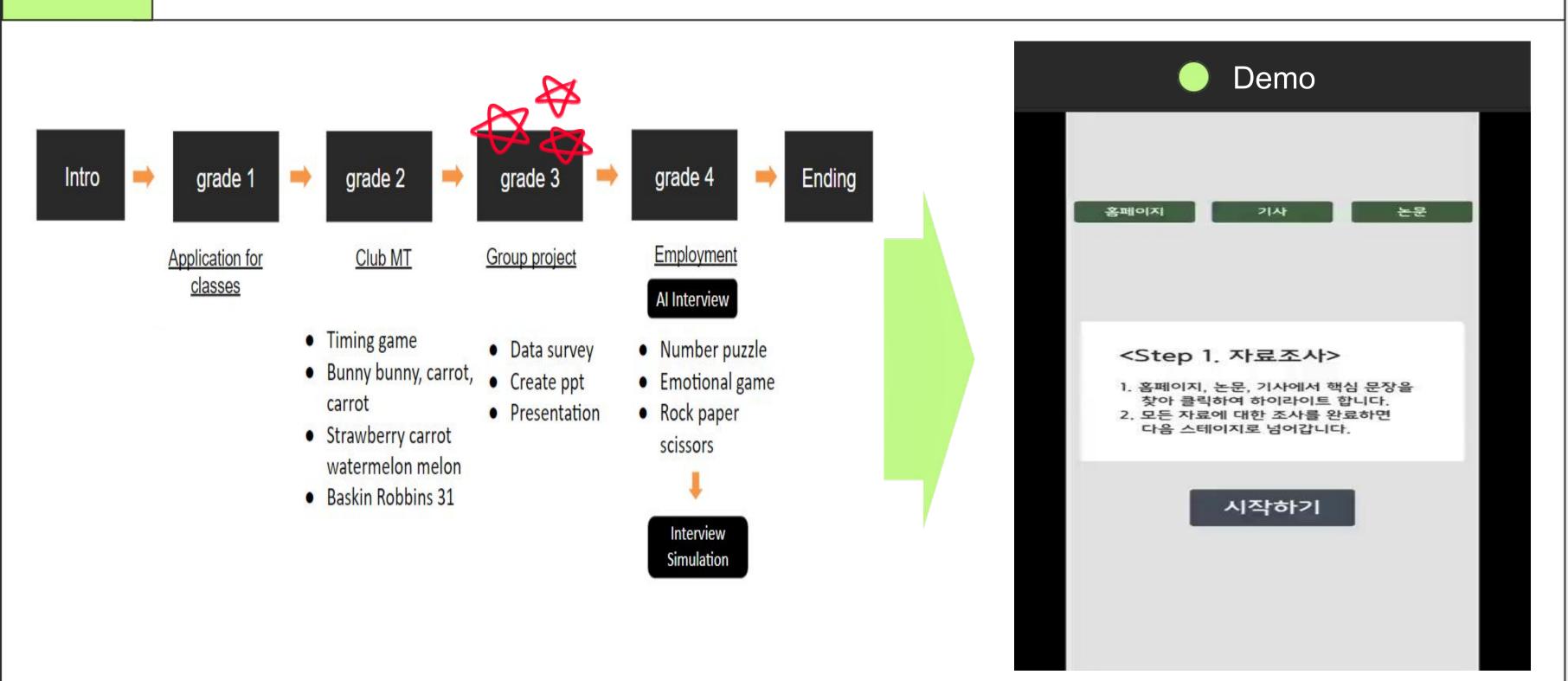


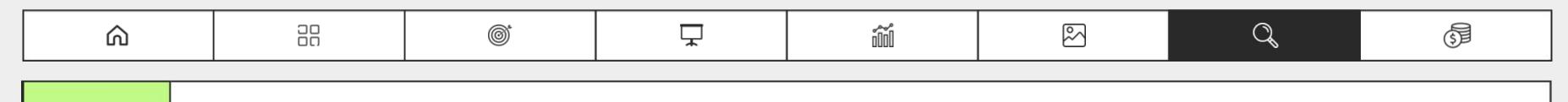




05 2_MiniGame_Grade3

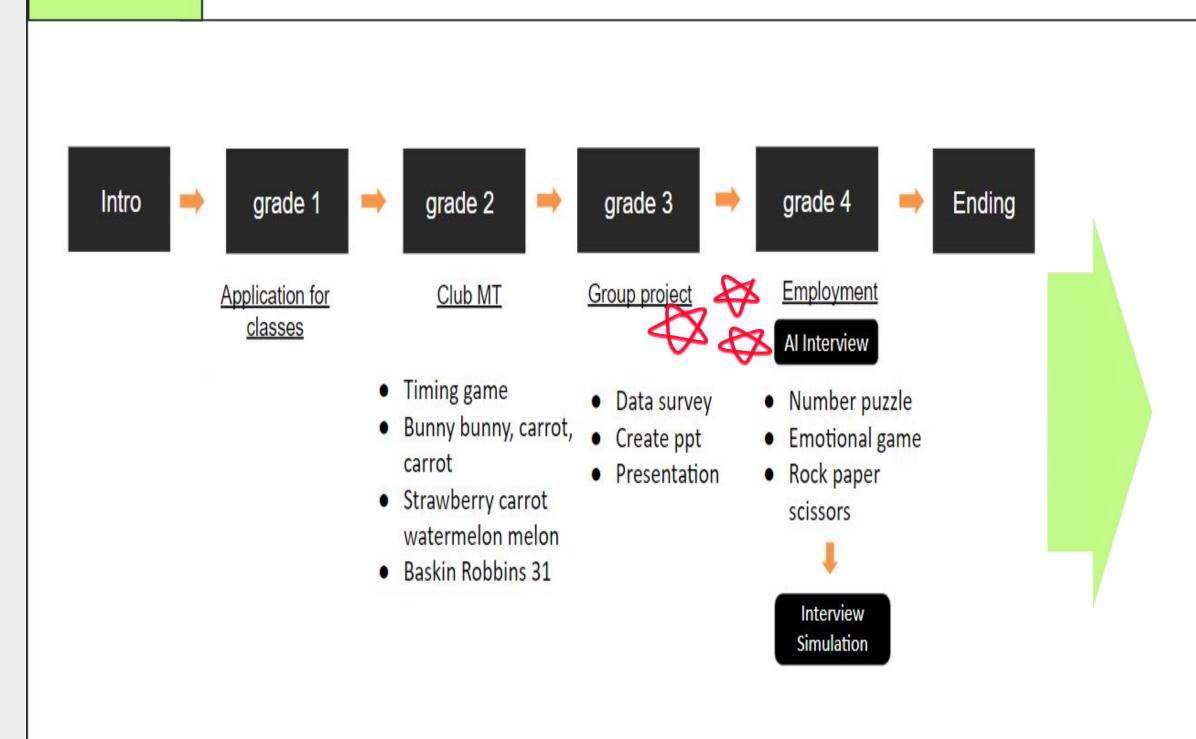




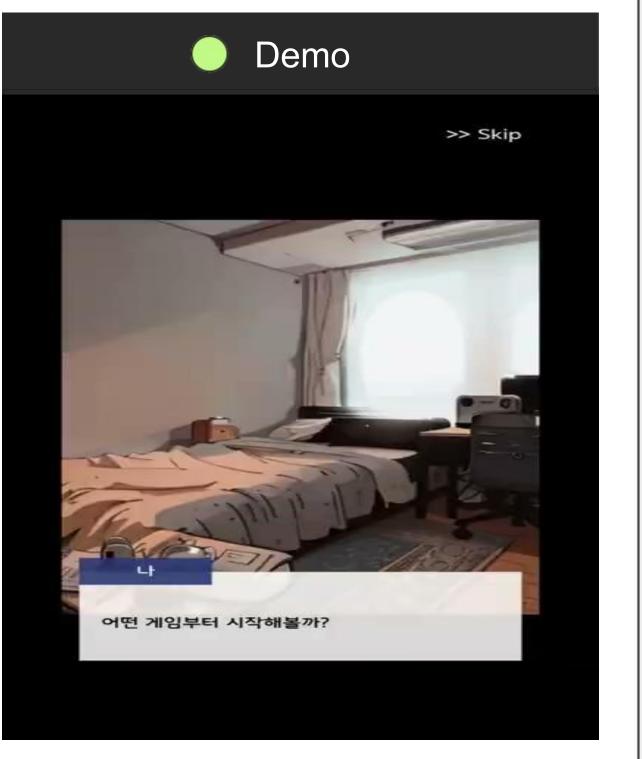


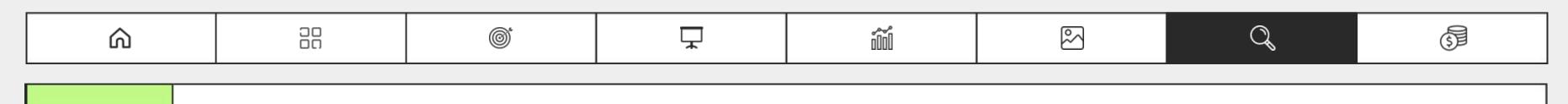
2_MiniGame_Grade4_AlGame_Number puzzle





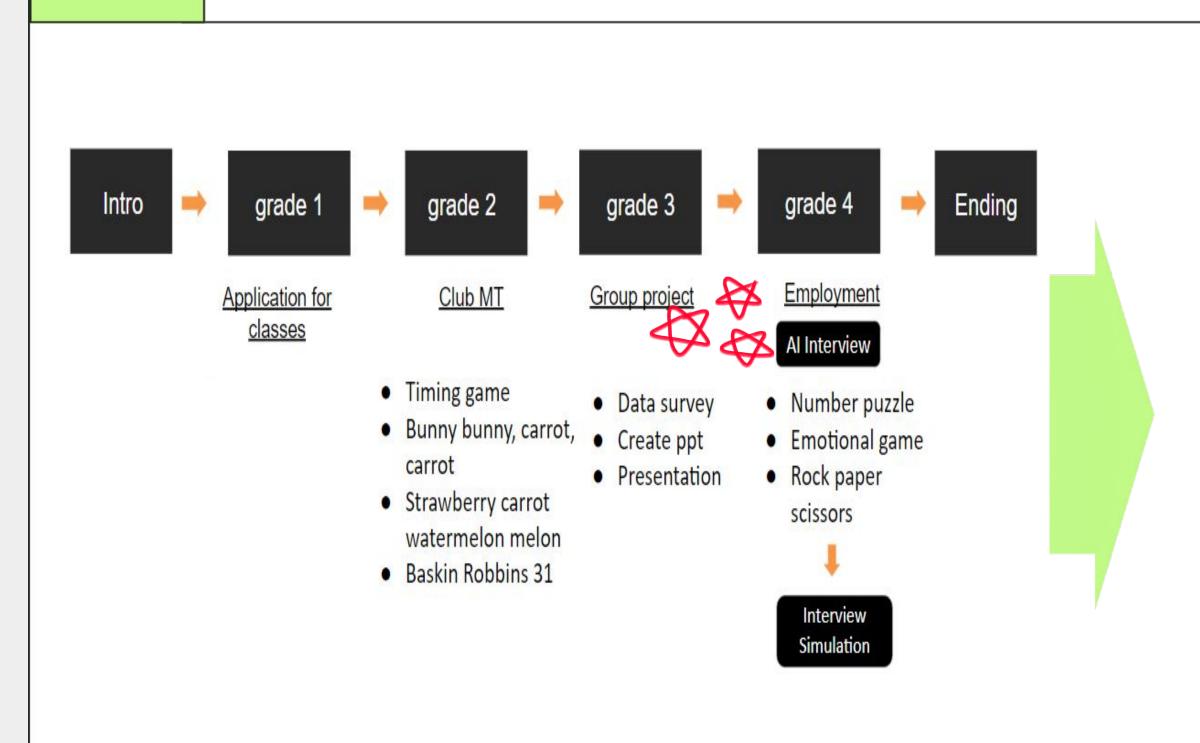
05



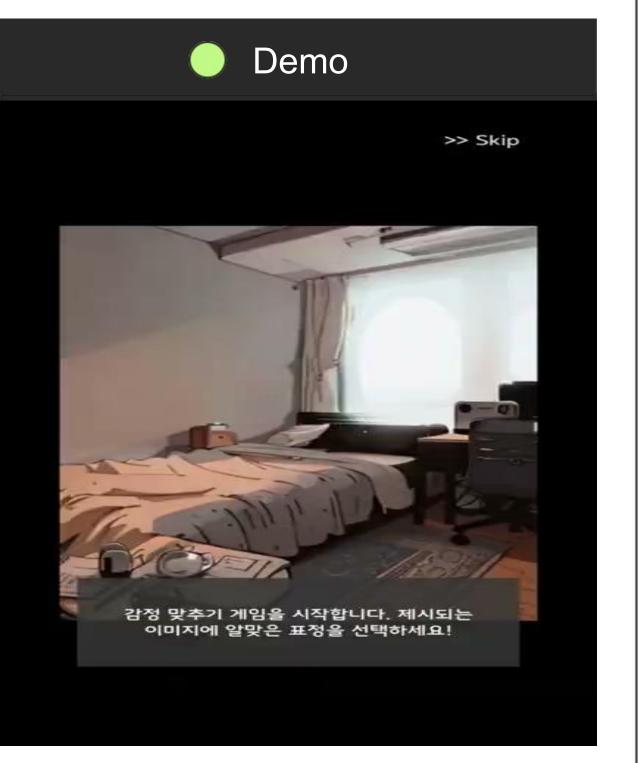


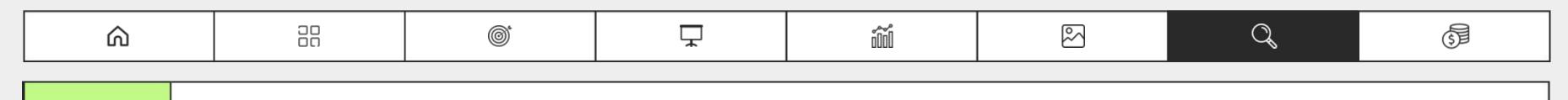
2_MiniGame_Grade4_AlGame_Emotional game





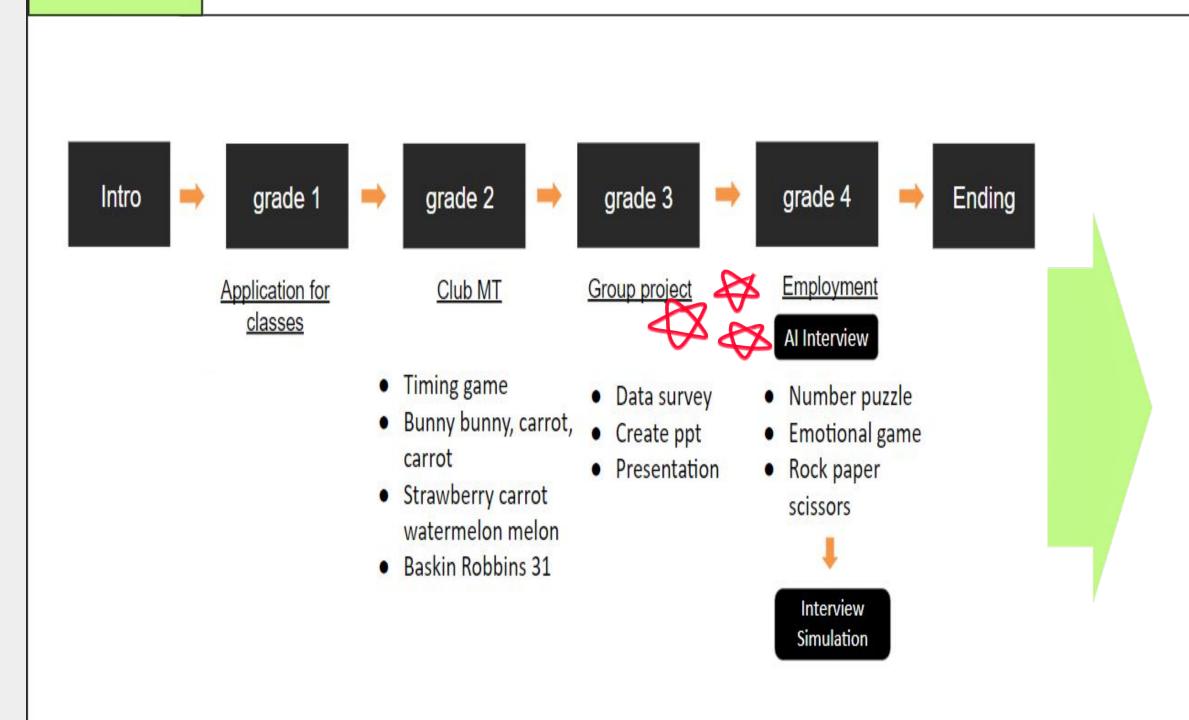
05

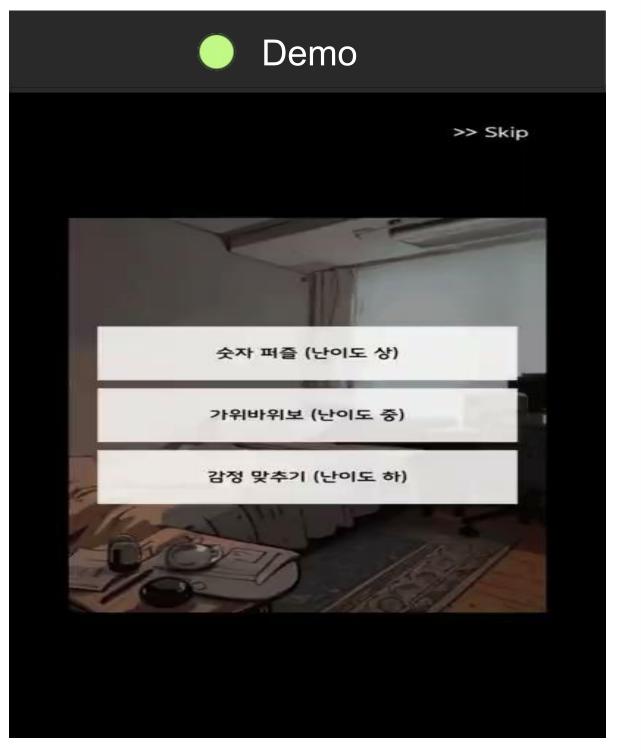




2_MiniGame_Grade4_AlGame_Rock paper scissors



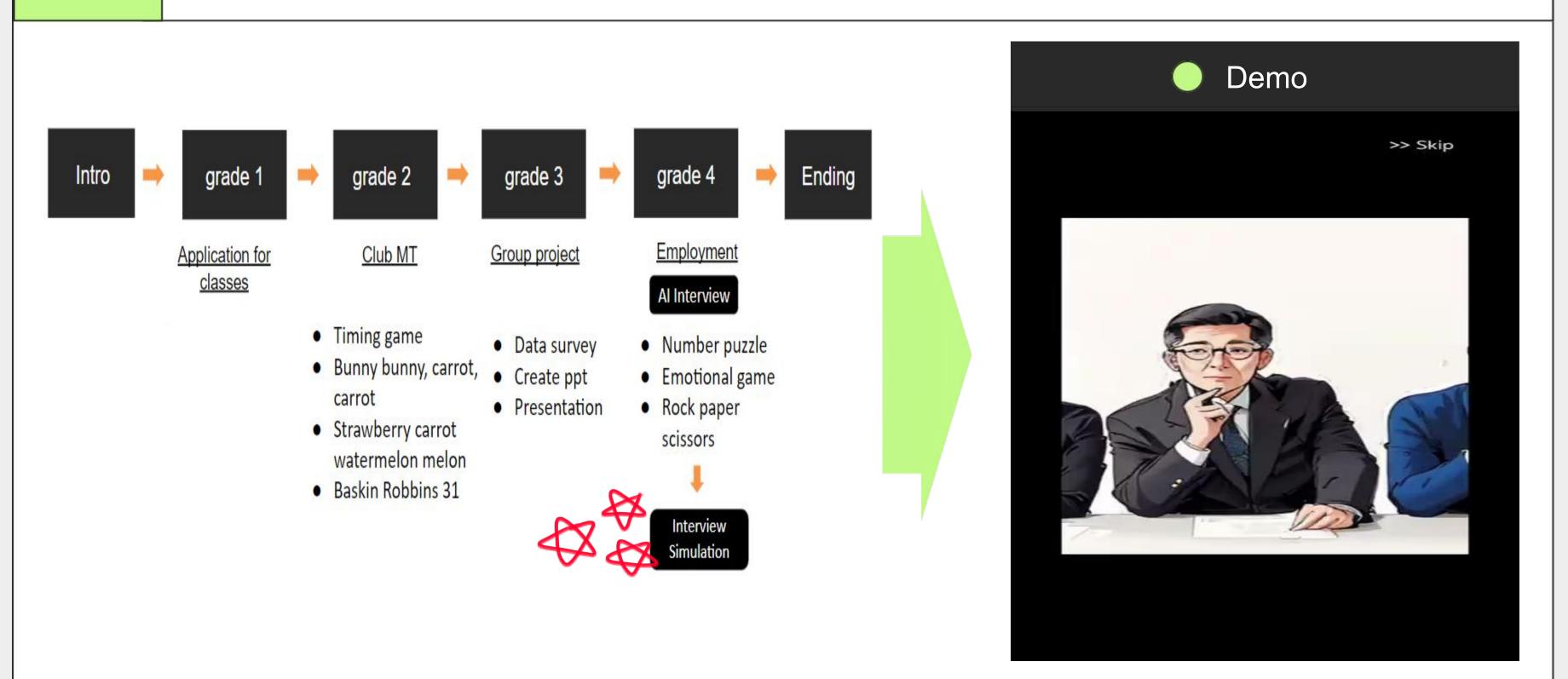


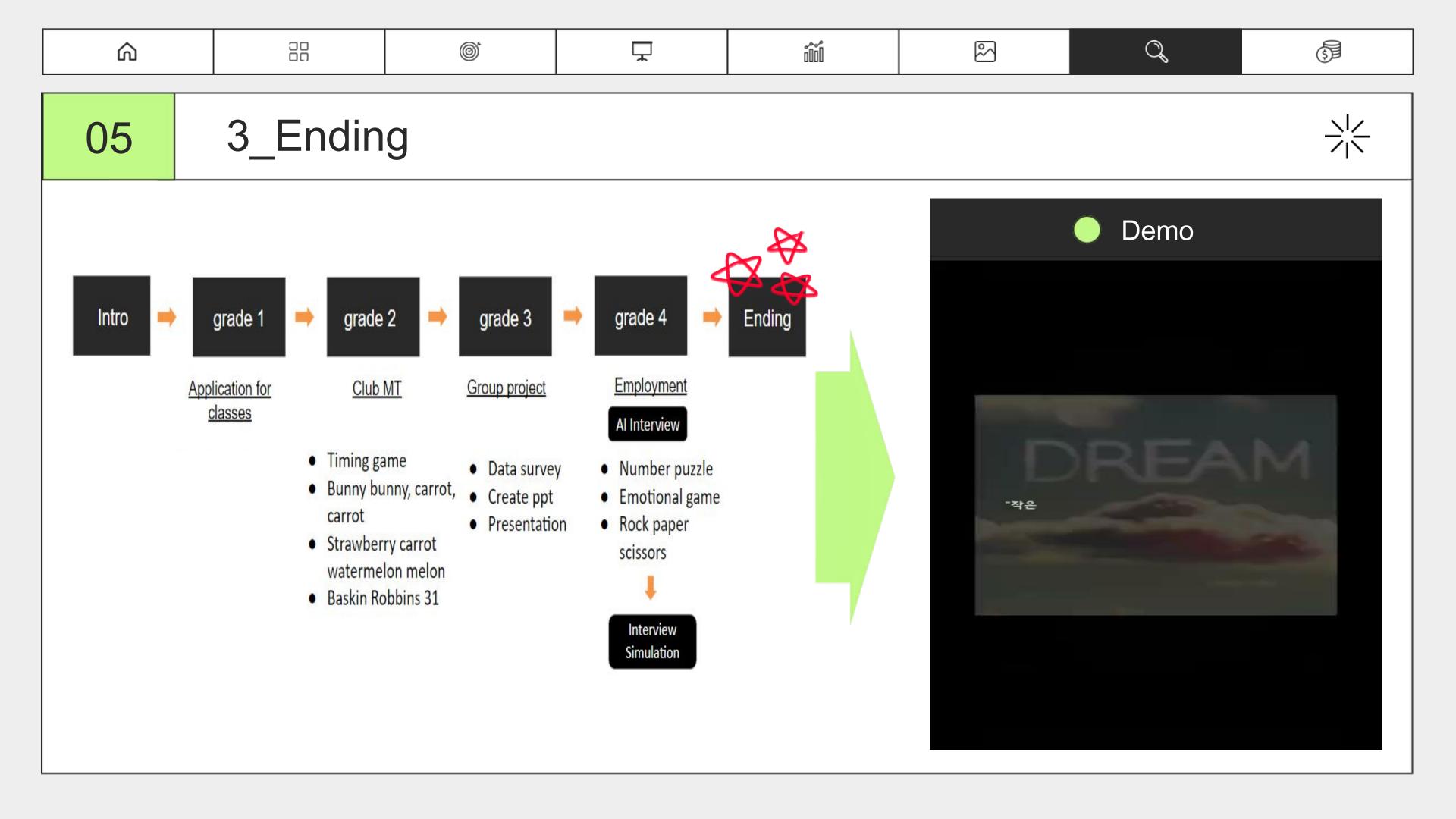


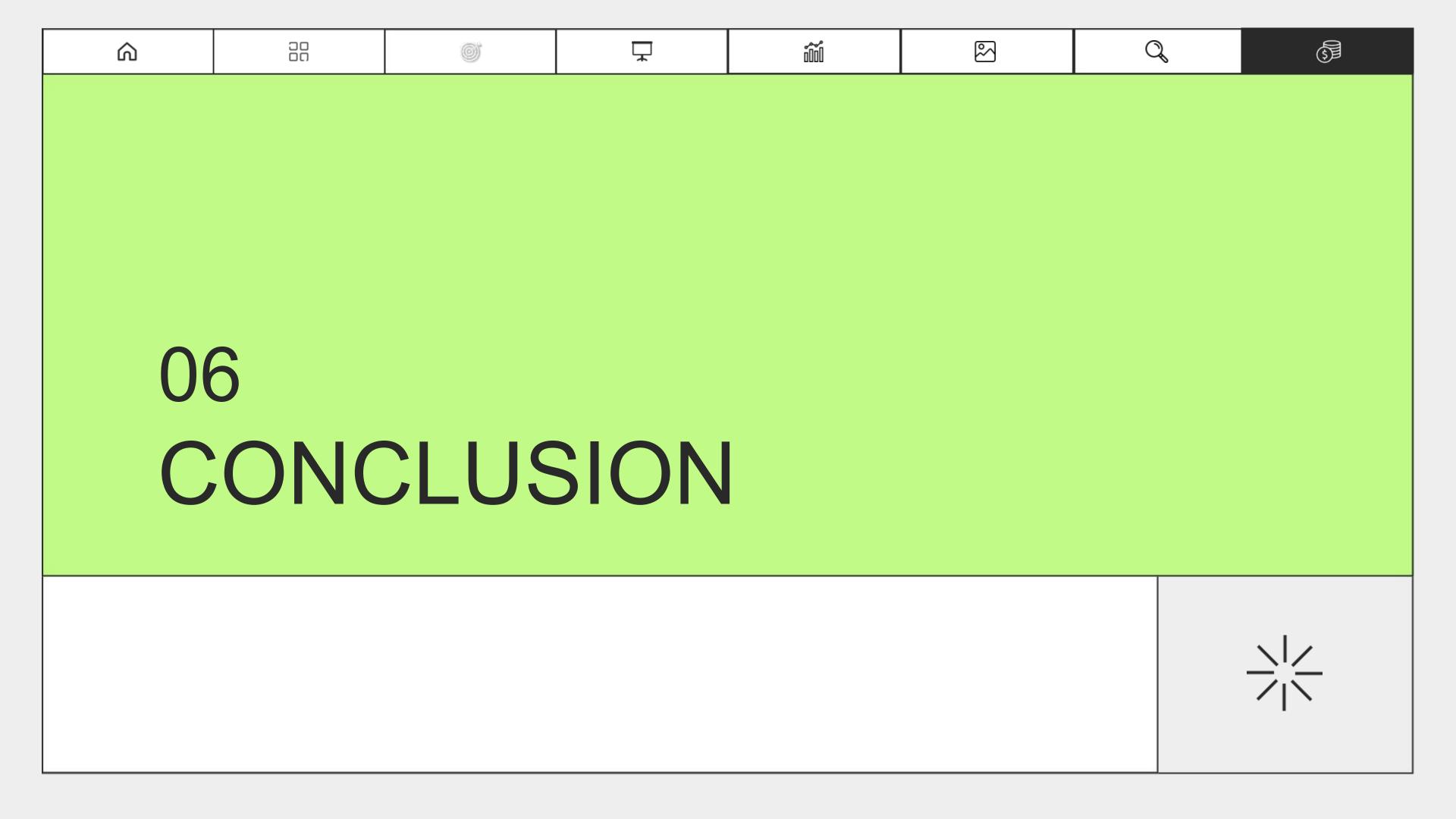


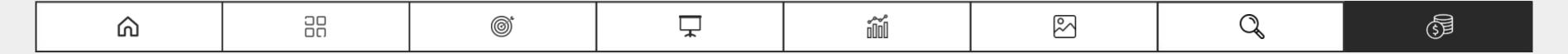
2_MiniGame_Grade4_Interview Simulation











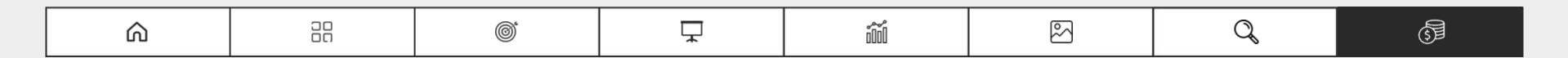
05 CHALLENGES



- Many team members are less familiar with Unity, so game development took longer than expected
 - -> Self-study by rescheduling the overall schedule, and conduct active discussions
- Absence of an art design major
 - -> Use AI image creation tool
- It was difficult to get the desired image accurately with the AI image creation tool
 - -> Using the method of taking a specific image and entering it into the Al







LIMITATION



limited expression

- Difficulty putting all the situations students experience in the game

Difficulty with detailed implementation

- Game implementation is a large-scale project game that considers many factors such as game concept, storytelling, art, and music

THANKS!



PROJECT MEMBERS

프로젝트 멤버

김다정 김서연 박종익 하예솜 PROJECT PERIOD

프로젝트 기간

2023.9. ~ 2023.12.